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Claims

- 1. A method for determining gastric cancer or a related condition in a sample, comprising assaying said sample for a sterol carrier protein-X/sterol carrier protein-2 protein or a Protein Kinase B/AKT protein, presence of said protein in said sample being indicative of the gastric cancer or the condition.
- 2. The method of claim 1, wherein the sterol carrier protein-X/sterol carrier protein-2 protein is encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NOs:19, 20, 21, and 22.
- 3. The method of claim 1, comprising assaying said sample for a peptide derived from said sterol carrier protein-X/sterol carrier protein-2 protein.
- 4. The method of claim 1, comprising assaying said sample for an antigenic fragment of said sterol carrier protein-X/sterol carrier protein-2 protein.
- 5. The method of claim 1, wherein the protein is assayed using an antibody that specifically binds sterol carrier protein-X/sterol carrier protein-2.
- 6. The method of claim 1, wherein the Protein Kinase B/AKT protein is encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NOs:13 and 14.
- 7. The method of claim 1, comprising assaying said sample for a peptide derived from said Protein Kinase B/AKT protein.
 - 8. The method of claim 1, comprising assaying said sample for an antigenic fragment of said Protein Kinase B/AKT protein.
- 30 9. The method of claim 1, wherein the protein is assayed using an antibody that specifically binds Protein Kinase B/AKT.

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- 10. A method for determining gastric cancer or a related condition in a sample, comprising assaying said sample for expression of a nucleic acid molecule which encodes sterol carrier protein-X/sterol carrier protein-2 or Protein Kinase B/AKT, as a determination of the gastric cancer or therelated condition in said sample.
- 11. The method of claim 10, wherein the nucleic acid molecule that encodes sterol carrier protein-X/sterol carrier protein-2 comprises a nucleotide sequence selected from the group consisting of SEQ ID NOs:19, 20, 21, and 22.
- 10 12. The method of claim 10, wherein the nucleic acid molecule that encodes Protein Kinase B/AKT comprises a nucleotide sequence selected from the group consisting of SEQ ID NOs:13 and 14.
 - 13. A method for determining gastric cancer or a related condition in a sample, comprising assaying said sample for an antibody that specifically binds sterol carrier protein-X/sterol carrier protein-2 or Protein Kinase B/AKT, as a determination of the condition in said sample.
 - 14. The method of claim 13, wherein the sterol carrier protein-X/sterol carrier protein-2 is encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NOs:19, 20, 21, and 22.
 - 15. The method of claim 13, wherein the antibody is assayed using sterol carrier protein-X/sterol carrier protein-2 or an antigenic fragment thereof.
 - 16. The method of claim 13, wherein the Protein Kinase B/AKT is encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NOs:13 and 14.
- 30 17. The method of claim 13, wherein the antibody is assayed using Protein Kinase B/AKT or an antigenic fragment thereof.

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- 18. A method for determining regression, progression or onset of a gastric cancer or a related condition, comprising monitoring a sample from a patient with said gastric cancer or related condition for a parameter selected from the group consisting of (i) a sterol carrier protein-X/sterol carrier protein-2 or Protein Kinase B/AKT protein, (ii) a peptide derived from said protein and (iii) cytolytic T cells specific for a peptide derived from said protein and an MHC molecule to which the peptide is bound, which is indicative of progression or regression or onset of said gastric cancer or a related condition.
- 19. The method of claim 18, wherein said sample is a body fluid or effusion.
- 20. The method of claim 18, wherein said sample is a tissue.
- 21. The method of claim 18, wherein monitoring comprises contacting said sample with an antibody that specifically binds with said protein or peptide.
- 22. The method of claim 21, wherein said antibody is labeled with a radioactive label or an enzyme.
- 23. The method of claim 21, wherein said antibody is a monoclonal antibody.
- 24. The method of claim 18, comprising amplifying RNA which codes for said protein.
- 25. The method of claim 24, wherein said amplifying comprises carrying out polymerase chain reaction.
- 26. The method of claim 18, comprising assaying said sample for said peptide.
- 27. The method of claim 18, comprising contacting said sample with a nucleic acid molecule which specifically hybridizes to a nucleic acid molecule which codes for or expresses said sterol carrier protein-X/sterol carrier protein-2 protein.
- 28. The method of claim 27, wherein the nucleic acid molecule comprises a nucleotide

sequence selected from the group consisting of SEQ ID NOs:19, 20, 21, and 22.

- 29. The method of claim 18, comprising contacting said sample with a nucleic acid molecule which specifically hybridizes to a nucleic acid molecule which codes for or expresses said Protein Kinase B/AKT protein.
- 30. The method of claim 29, wherein the nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of SEQ ID NOs:13 and 14.
- 10 31. A method for following progress of a therapeutic regime designed to alleviate gastric cancer or a related condition, comprising:
 - (a) assaying a sample from a subject to determine level of a parameter selected from the group consisting of (i) a peptide derived from a sterol carrier protein-X/sterol carrier protein-2 or a Protein Kinase B/AKT protein, (ii) a cytolytic T cell specific for cells presenting said peptide, and (iii) an antibody which specifically binds to said peptide of said protein, at a first time period;
 - (b) assaying level of the parameter selected in (a) at a second period of time and comprising it to the level determined in (a) as a determination of effect of said therapeutic regime.
 - 32. The method of claim 31, wherein the condition is gastric cancer.